ISOLATED INSTRUMENT

One 24 volt, 36 ampere-hour battery and one 250 volt-ampere, 400 cycle inverter supply an isolated power source for operation of the co-pilots basic flight instruments and pitot heaters, a cockpit flood light, the flight interphone and the emergency alarm bell. The isolated battery is also connected into the main 28 volt D. C. system through a blocking rectifier which keeps the battery fully charged but precludes its discharge into any other part of the system. Instrument power failure warning lights are provided for both pilots on the main instrument panel. The switch which controls the isolated system is located on the co-pilot's flight instrument panel. The isolated, its associated controls, and the isolated load circuit breakers are combined in a package unit located in the co-pilot's side console. See the isolated instrument power diagram.